

ABSTRACT OF THE DISCLOSURE

A gas transfer machine for use as a vacuum pump, for example, has a pump rotor mounted on a rotatable shaft for transferring a gas, and a reluctance-type motor for rotating the rotatable shaft. The reluctance-type motor has a stator, a motor rotor surrounded by the stator, and a shield member isolating the stator from the motor rotor. The motor rotor is directly coupled to the rotatable shaft and has a plurality of magnetic salient poles.

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